<221> VARIANT
<222> (9)...(9)
<223> Xaa is Arg, Asn, Asp, Glu or Gly

<221> VARIANT
<222> (10)...(10)
<223> Xaa is Gln, Leu or Gly

<221> VARIANT
<222> (11)...(11)
<223> Xaa is Ala, Trp or Tyr

<221> VARIANT
<222> (12)...(12)
<223> Xaa is Ala, Gly, His, Phe, Thr or Val

<221> VARIANT
<222> (14)...(14)
<223> Xaa is Asn, Gln, Phe, Ser or Val

<221> VARIANT
<222> (15)...(15)
<223> Xaa is Arg, Leu, Pro or Ser

<221> VARIANT
<222> (16)...(16)
<223> Xaa is Leu, Ser, Trp or Tyr

<400> 1
Xaa Xaa Xaa Cys Xaa Xaa Xaa Xaa Xaa Xaa Xaa Xaa Cys Xaa Xaa Xaa
1 5 10 15

<210> 2
<211> 16
<212> PRT
<213> Artificial Sequence

<220>
<223> Family of preferred CEA binding moieties

<221> VARIANT
<222> 1
<223> Xaa is Asn or Asp

<221> VARIANT
<222> 6
<223> Xaa is Phe, Met, Leu or Asn

<221> VARIANT
<222> 7
<223> Xaa is Asp, Gly, Ile, Lys, Phe or Thr

<221> VARIANT
<222> 9
<223> Xaa is Arg, Asn, Asp, Glu, Gly or Trp

<221> VARIANT
<222> 12
<223> Xaa is Ala, Gly, His, Phe, Thr, Tyr or Val

<221> VARIANT
<222> (15)...(15)
<223> Xaa is Arg, Leu, Pro or Ser

<221> VARIANT
<222> (16)...(16)
<223> Xaa is Leu, Ser, Trp or Tyr

<400> 2
Xaa Trp Val Cys Glu Xaa Xaa Lys Xaa Gln Trp Xaa Cys Asn Xaa Xaa
1 5 10 15

<210> 3
<211> 10
<212> PRT
<213> Artificial Sequence

<220>
<223> CEA binding loop

<221> VARIANT
<222> 2
<223> Xaa is Asn, Glu or Met

<221> VARIANT
<222> 3
<223> Xaa is Asn, Leu, Met or Phe

<221> VARIANT
<222> 4
<223> Xaa is Asp, Gly, Ile, Lys, Phe or Thr

<221> VARIANT
<222> 5
<223> Xaa is Ala, Gln, Gly, Lys or Thr

<221> VARIANT
<222> 6
<223> Xaa is Arg, Asn, Asp, Glu or Gly

<221> VARIANT
<222> (7)...(7)
<223> Xaa is Gln, Gly or Leu

<221> VARIANT
<222> (8)...(8)
<223> Xaa is Ala, Trp or Tyr

<221> VARIANT
<222> (9)...(9)
<223> Xaa is Ala, Gly, His, Phe, Thr or Val

<400> 3
Cys Xaa Xaa Xaa Xaa Xaa Xaa Xaa Xaa Cys
1 5 10

<210> 4
<211> 16
<212> PRT
<213> Artificial Sequence

<220>
<223> CEA binding polypeptide

<400> 4
Asn Trp Val Cys Asn Leu Phe Lys Asn Gln Trp Phe Cys Asn Ser Tyr
1 5 10 15

<210> 5
<211> 16
<212> PRT
<213> Artificial Sequence

<220>
<223> CEA binding polypeptide

<400> 5
Asp Trp Val Cys Glu Asn Lys Lys Asp Gln Trp Thr Cys Asn Leu Leu
1 5 10 15

<210> 6
<211> 16
<212> PRT
<213> Artificial Sequence

<220>
<223> CEA binding polypeptide

<400> 6
Asn Trp Asp Cys Met Phe Gly Ala Glu Gly Trp Ala Cys Ser Pro Trp
1 5 10 15

<210> 7
<211> 16
<212> PRT
<213> Artificial Sequence

<220>
<223> CEA binding polypeptide

<400> 7
Asp Trp Val Cys Glu Lys Thr Thr Gly Gly Tyr Val Cys Gln Pro Leu
1 5 10 15

<210> 8
<211> 16
<212> PRT
<213> Artificial Sequence

<220>
<223> CEA binding polypeptide

<400> 8
Asn Trp Phe Cys Glu Met Ile Gly Arg Gln Trp Gly Cys Val Pro Ser
1 5 10 15

<210> 9
<211> 16
<212> PRT
<213> Artificial Sequence

<220>
<223> CEA binding polypeptide

<400> 9
Asp Trp Val Cys Asn Phe Asp Gln Gly Leu Ala His Cys Phe Pro Ser
1 5 10 15

<210> 10
<211> 12
<212> PRT
<213> Artificial Sequence

<220>
<223> Parental domain for design of microprotein display library

<221> VARIANT
<222> (1)...(12)
<223> amino acid positions 4 and 9 are invariant Cys; all other positions Xaa are varied but not Cys, to provide a library of 2x10(8) different peptides based on the template sequence

<221> VARIANT
<222> 1, 2, 3, 5, 6, 7, 8, 10, 11, 12
<223> Xaa = Any Amino Acid except Cys

<400> 10
Xaa Xaa Xaa Cys Xaa Xaa Xaa Xaa Cys Xaa Xaa Xaa
1 5 10

<210> 11
<211> 11
<212> PRT
<213> Artificial Sequence

<220>

<223> Parental domain for design of microprotein display library

<221> VARIANT
<222> (1)...(11)
<223> amino acid positions 3 and 9 are invariant Cys; all other positions Xaa are varied but not Cys, to provide a library of 1x10(9) different peptides based on the template sequence

<221> VARIANT
<222> 1, 2, 4, 5, 6, 7, 8, 10, 11
<223> Xaa = Any Amino Acid except Cys

<400> 11
Xaa Xaa Cys Xaa Xaa Xaa Xaa Xaa Cys Xaa Xaa
1 5 10

<210> 12
<211> 12
<212> PRT
<213> Artificial Sequence

<220>
<223> Parental domain for design of microprotein display library

<221> VARIANT
<222> (1)...(12)
<223> amino acid positions 3 and 10 are invariant Cys; all other positions Xaa are varied but not Cys, to provide a library of 1x10(9) different peptides based on the template sequence

<221> VARIANT
<222> 1, 2, 4, 5, 6, 7, 8, 9, 11, 12
<223> Xaa = Any Amino Acid except Cys

<400> 12
Xaa Xaa Cys Xaa Xaa Xaa Xaa Xaa Xaa Cys Xaa Xaa
1 5 10

<210> 13
<211> 16
<212> PRT
<213> Artificial Sequence

<220>
<223> Parental domain for design of microprotein display library

<221> VARIANT
<222> (1)...(16)
<223> amino acid positions 4 and 13 are invariant Cys; all other positions Xaa are varied but not Cys, to

provide a library of 2.5x10(8) different peptides based on the template sequence

<221> VARIANT
<222> 1, 2, 3, 5, 6, 7, 8, 9, 10, 11, 12, 14, 15, 16
<223> Xaa = Any Amino Acid except Cys

<400> 13
Xaa Xaa Xaa Cys Xaa Xaa Xaa Xaa Xaa Xaa Xaa Xaa Cys Xaa Xaa Xaa
1 5 10 15

<210> 14
<211> 16
<212> PRT
<213> Artificial Sequence

<220>
<223> Variable sublibrary sequence used in designing focused secondary library

<221> VARIANT
<222> (1)...(3)
<223> Xaa is any amino acid except Cys

<221> VARIANT
<222> (5)...(6)
<223> Xaa is any amino acid except Cys

<221> VARIANT
<222> 1, 2, 3, 5, 6
<223> Xaa = Any Amino Acid except Cys

<400> 14
Xaa Xaa Xaa Cys Xaa Xaa Lys Lys Asp Gln Trp Thr Cys Asn Leu Leu
1 5 10 15

<210> 15
<211> 16
<212> PRT
<213> Artificial Sequence

<220>
<223> Variable sublibrary sequence used in designing focused secondary library

<221> VARIANT
<222> (5)...(9)
<223> Xaa is any amino acid except Cys

<221> VARIANT
<222> 5, 6, 7, 8, 9
<223> Xaa = Any Amino Acid except Cys

<400> 15
Asp Trp Val Cys Xaa Xaa Xaa Xaa Xaa Gln Trp Thr Cys Asn Leu Leu
1 5 10 15

<210> 16
<211> 16
<212> PRT
<213> Artificial Sequence

<220>
<223> Variable sublibrary sequence used in designing
focused secondary library

<221> VARIANT
<222> (8)...(12)
<223> Xaa is any amino acid except Cys

<221> VARIANT
<222> 8, 9, 10, 11, 12
<223> Xaa = Any Amino Acid except Cys

<400> 16
Asp Trp Val Cys Glu Asn Lys Xaa Xaa Xaa Xaa Xaa Cys Asn Leu Leu
1 5 10 15

<210> 17
<211> 16
<212> PRT
<213> Artificial Sequence

<220>
<223> Variable sublibrary sequence used in designing
focused secondary library

<221> VARIANT
<222> (11)...(12)
<223> Xaa is any amino acid except Cys

<221> VARIANT
<222> (14)...(16)
<223> Xaa is any amino acid except Cys

<221> VARIANT
<222> 11, 12, 14, 15, 16
<223> Xaa = Any Amino Acid except Cys

<400> 17
Asp Trp Val Cys Glu Asn Lys Lys Asp Gln Xaa Xaa Cys Xaa Xaa Xaa
1 5 10 15

<210> 18
<211> 16
<212> PRT
<213> Artificial Sequence

<220>
<223> Variable sublibrary sequence used in designing
focused secondary library

<221> VARIANT
<222> (6)...(7)
<223> Xaa is any amino acid except Cys

<221> VARIANT
<222> 9
<223> Xaa is any amino acid except Cys

<221> VARIANT
<222> 12
<223> Xaa is any amino acid except Cys

<221> VARIANT
<222> 15
<223> Xaa is any amino acid except Cys

<221> VARIANT
<222> 6, 7, 9, 12, 15
<223> Xaa = Any Amino Acid except Cys

<400> 18
Asp Trp Val Cys Glu Xaa Xaa Lys Xaa Gln Trp Xaa Cys Asn Xaa Leu
1 5 10 15

<210> 19
<211> 16
<212> PRT
<213> Artificial Sequence

<220>
<223> Variable sublibrary sequence used in designing
focused secondary library

<221> VARIANT
<222> (5)...(7)
<223> Xaa is any amino acid except Cys

<221> VARIANT
<222> 9
<223> Xaa is any amino acid except Cys

<221> VARIANT
<222> 12
<223> Xaa is any amino acid except Cys

<221> VARIANT
<222> 5, 6, 7, 9, 12
<223> Xaa = Any Amino Acid except Cys

<400> 19
Asn Trp Val Cys Xaa Xaa Xaa Lys Xaa Gln Trp Xaa Cys Asn Ser Tyr
1 5 10 15

<210> 20
<211> 16
<212> PRT
<213> Artificial Sequence

<220>
<223> Variable sublibrary sequence used in designing
focused secondary library

<221> VARIANT
<222> 1
<223> Xaa is any amino acid except Cys

<221> VARIANT
<222> 3
<223> Xaa is any amino acid except Cys

<221> VARIANT
<222> (14)...(16)
<223> Xaa is any amino acid except Cys

<221> VARIANT
<222> 1, 3, 14, 15, 16
<223> Xaa = Any Amino Acid except Cys

<400> 20
Xaa Trp Xaa Cys Asn Leu Phe Lys Asn Gln Trp Phe Cys Xaa Xaa Xaa
1 5 10 15

<210> 21
<211> 16
<212> PRT
<213> Artificial Sequence

<220>
<223> Isolate of TN10/9 library found not to bind CEA

<400> 21
Asn Trp Arg Cys Lys Leu Phe Pro Arg Tyr Pro Tyr Cys Ser Ser Trp
1 5 10 15

<210> 22
<211> 15
<212> PRT
<213> Artificial Sequence

<220>
<223> Isolate of TN10/9 library found not to bind CEA

<400> 22
Arg Tyr Cys Glu Phe Phe Pro Trp Ser Leu His Cys Gly Arg Pro
1 5 10 15

<210> 23
<211> 16
<212> PRT
<213> Artificial Sequence

<220>
<223> Conserved amino acid positions in first family of CEA binding peptides

<221> VARIANT
<222> 6
<223> X is Asn, Leu, Met or Phe

<221> VARIANT
<222> 7
<223> X is Asp, Gly, Ile, Lys, Phe or Thr

<221> VARIANT
<222> 9
<223> X is Arg, Asn, Asp, Glu or Gly

<221> VARIANT
<222> 12
<223> X is Ala, Gly, His, Phe, Thr or Val

<221> VARIANT
<222> 15
<223> X is Arg, Leu, Pro or Ser

<400> 23
Asp Trp Val Cys Glu Xaa Xaa Lys Xaa Gln Trp Xaa Cys Asn Xaa Leu
1 5 10 15

<210> 24
<211> 27
<212> PRT
<213> Artificial Sequence

<220>
<223> Synthetic CEA binding peptide with C-terminal immobilization sequence

<400> 24
Ser Asn Trp Val Cys Asn Leu Phe Lys Asn Gln Trp Phe Cys Asn Ser
1 5 10 15
Tyr Ala Pro Gly Gly Glu Gly Gly Gly Ser Lys
20 25

<210> 25
<211> 27
<212> PRT
<213> Artificial Sequence

<220>
<223> Synthetic CEA binding peptide with C-terminal
immobilization sequence

<400> 25
Ser Asp Trp Val Cys Glu Asn Lys Lys Asp Gln Trp Thr Cys Asn Leu
1 5 10 15
Leu Ala Pro Gly Gly Glu Gly Gly Gly Ser Lys
20 25

<210> 26
<211> 27
<212> PRT
<213> Artificial Sequence

<220>
<223> Synthetic CEA binding peptide with C-terminal
immobilization sequence

<400> 26
Ser Asn Trp Asp Cys Met Phe Gly Ala Glu Gly Trp Ala Cys Ser Pro
1 5 10 15
Trp Ala Pro Gly Gly Glu Gly Gly Gly Ser Lys
20 25

<210> 27
<211> 27
<212> PRT
<213> Artificial Sequence

<220>
<223> Synthetic CEA binding peptide with C-terminal
immobilization sequence

<400> 27
Ser Asp Trp Val Cys Glu Leu Thr Thr Gly Gly Tyr Val Cys Gln Pro
1 5 10 15
Leu Ala Pro Gly Gly Glu Gly Gly Gly Ser Lys
20 25

<210> 28
<211> 10
<212> PRT
<213> Artificial Sequence

<220>
<223> C-terminal sequence for immobilizing peptides

<400> 28
Ala Pro Gly Gly Glu Gly Gly Gly Ser Lys
1 5 10

<210> 29
<211> 16
<212> PRT
<213> Artificial Sequence

<220>
<223> Template sequence for sublibrary used in
construction of focused secondary display library

<221> VARIANT
<222> (1)...(3)
<223> X is any amino acid except Cys

<221> VARIANT
<222> (5)...(6)
<223> X is any amino acid except Cys

<221> VARIANT
<222> 1, 2, 3, 5, 6
<223> Xaa = Any Amino Acid except Cys

<400> 29
Xaa Xaa Xaa Cys Xaa Xaa Lys Lys Asp Gln Trp Thr Cys Asn Leu Leu
1 5 10 15

<210> 30
<211> 16
<212> PRT
<213> Artificial Sequence

<220>
<223> Template sequence for sublibrary used in
construction of focused secondary display library

<221> VARIANT
<222> (5)...(9)
<223> X is any amino acid except Cys

<221> VARIANT
<222> 5, 6, 7, 8, 9
<223> Xaa = Any Amino Acid except Cys

<400> 30
Asp Trp Val Cys Xaa Xaa Xaa Xaa Xaa Gln Trp Thr Cys Asn Leu Leu
1 5 10 15

<210> 31
<211> 16
<212> PRT
<213> Artificial Sequence

<220>
<223> Template sequence for sublibrary used in
construction of focused secondary display library

<221> VARIANT
<222> (8)...(12)
<223> X is any amino acid except Cys

<221> VARIANT
<222> 8, 9, 10, 11, 12
<223> Xaa = Any Amino Acid except Cys

<400> 31
Asp Trp Val Cys Glu Asn Lys Xaa Xaa Xaa Xaa Xaa Cys Asn Leu Leu
 1   5   10   15

<210> 32
<211> 16
<212> PRT
<213> Artificial Sequence

<220>
<223> Template sequence for sublibrary used in
construction of focused secondary display library

<221> VARIANT
<222> (11)...(12)
<223> X is any amino acid except Cys

<221> VARIANT
<222> (14)...(16)
<223> X is any amino acid except Cys

<221> VARIANT
<222> 11, 12, 14, 15, 16
<223> Xaa = Any Amino Acid except Cys

<400> 32
Asp Trp Val Cys Glu Asn Lys Lys Asp Gln Xaa Xaa Cys Xaa Xaa Xaa
 1   5   10   15

<210> 33
<211> 16
<212> PRT
<213> Artificial Sequence

<220>
<223> Template sequence for sublibrary used in
construction of focused secondary display library

<221> VARIANT
<222> (6)...(7)
<223> X is any amino acid except Cys

<221> VARIANT
<222> 9
<223> X is any amino acid except Cys

<221> VARIANT
<222> 12
<223> X is any amino acid except Cys

<221> VARIANT
<222> 15
<223> X is any amino acid except Cys

<221> VARIANT
<222> 6, 7, 9, 12, 15
<223> Xaa = Any Amino Acid except Cys

<400> 33
Asp Trp Val Cys Glu Xaa Xaa Lys Xaa Gln Trp Xaa Cys Asn Xaa Leu
1 5 10 15

<210> 34
<211> 16
<212> PRT
<213> Artificial Sequence

<220>
<223> Template sequence for sublibrary used in
construction of focused secondary display library

<221> VARIANT
<222> (5)...(7)
<223> X is any amino acid except Cys

<221> VARIANT
<222> 9
<223> X is any amino acid except Cys

<221> VARIANT
<222> 12
<223> X is any amino acid except Cys

<221> VARIANT
<222> 5, 6, 7, 9, 12
<223> Xaa = Any Amino Acid except Cys

<400> 34
Asn Trp Val Cys Xaa Xaa Xaa Lys Xaa Gln Trp Xaa Cys Asn Ser Tyr
1 5 10 15

<210> 35
<211> 16
<212> PRT
<213> Artificial Sequence

<220>
<223> Template sequence for sublibrary used in
construction of focused secondary display library

<221> VARIANT
<222> 1
<223> X is any amino acid except Cys

<221> VARIANT
<222> 3
<223> X is any amino acid except Cys

<221> VARIANT
<222> (14)...(16)
<223> X is any amino acid except Cys

<221> VARIANT
<222> 1, 3, 14, 15, 16
<223> Xaa = Any Amino Acid except Cys

<400> 35
Xaa Trp Xaa Cys Asn Leu Phe Lys Asn Gln Trp Phe Cys Xaa Xaa Xaa
 1   5   10   15

<210> 36
<211> 16
<212> PRT
<213> Artificial Sequence

<220>
<223> Family of CEA binding polypeptides

<221> VARIANT
<222> 1
<223> Xaa is Asp, Asn, Ala or Ile

<221> VARIANT
<222> 3
<223> Xaa is Val, Ile, Met, Tyr, Phe, Pro or Asp

<221> VARIANT
<222> 5
<223> Xaa is Asn, Glu or Asp

<221> VARIANT
<222> 6
<223> Xaa is Leu, Phe, Tyr, Trp, Val, Met, Ile or Asn

<221> VARIANT
<222> 7
<223> Xaa is Phe, Leu, Asp, Glu, Ala, Ile, Lys, Asn,
Ser, Val, Trp or Tyr

<221> VARIANT
<222> (8)...(8)
<223> Xaa is Lys, Phe, Asp, Gly, Leu, Asn or Trp

<221> VARIANT
<222> (9)...(9)
<223> Xaa is Asn, Pro, Phe, Gly, Asp, Ala, Ser, Glu, Gln

or Trp

<221> VARIANT
<222> (10)...(10)
<223> Xaa is Gln or Lys

<221> VARIANT
<222> (12)...(12)
<223> Xaa is Phe, Thr, Met, Ser, Ala, Asn, Val, His, Ile, Pro, Trp or Tyr

<221> VARIANT
<222> (14)...(14)
<223> Xaa is Asn, Asp, Glu, Pro, Gln or Ser

<221> VARIANT
<222> (15)...(15)
<223> Xaa is Val, Leu, Ile, Pro, Ala, Gln, Ser, Met, Glu, Thr, Lys or Trp

<221> VARIANT
<222> (16)...(16)
<223> Xaa is Leu, Met, Val, Tyr, Ala, Ile, Trp, His, Pro, Gln, Glu, Phe, Lys or Arg

<400> 36
Xaa Trp Xaa Cys Xaa Xaa Xaa Xaa Xaa Xaa Trp Xaa Cys Xaa Xaa Xaa
1 5 10 15

<210> 37
<211> 16
<212> PRT
<213> Artificial Sequence

<220>
<223> CEA binding polypeptide

<400> 37
Asp Trp Met Cys Asn Leu Phe Lys Asn Gln Trp Phe Cys Asp Leu Met
1 5 10 15

<210> 38
<211> 16
<212> PRT
<213> Artificial Sequence

<220>
<223> CEA binding polypeptide

<400> 38
Asp Trp Val Cys Asn Leu Phe Lys Asn Gln Trp Phe Cys Asp Leu Met
1 5 10 15

<210> 39
<211> 16
<212> PRT
<213> Artificial Sequence

<220>
<223> CEA binding polypeptide

<400> 39
Asp Trp Ile Cys Asn Leu Phe Lys Asn Gln Trp Phe Cys Asp Gln Met
1 5 10 15

<210> 40
<211> 16
<212> PRT
<213> Artificial Sequence

<220>
<223> CEA binding polypeptide

<400> 40
Asn Trp Ile Cys Asn Leu Phe Lys Asn Gln Trp Phe Cys Asp Gln Glu
1 5 10 15

<210> 41
<211> 16
<212> PRT
<213> Artificial Sequence

<220>
<223> CEA binding polypeptide

<400> 41
Asp Trp Ile Cys Asn Leu Phe Lys Asn Gln Trp Phe Cys Gln Val Lys
1 5 10 15

<210> 42
<211> 16
<212> PRT
<213> Artificial Sequence

<220>
<223> CEA binding polypeptide

<400> 42
Asp Trp Val Cys Asn Leu Phe Lys Asn Gln Trp Phe Cys Asp Val Met
1 5 10 15

<210> 43
<211> 16
<212> PRT
<213> Artificial Sequence

<220>
<223> CEA binding polypeptide

<400> 43
Asp Trp Met Cys Asn Leu Phe Lys Asn Gln Trp Phe Cys Asp Gln Ile
1 5 10 15

<210> 44
<211> 16
<212> PRT
<213> Artificial Sequence

<220>
<223> CEA binding polypeptide

<400> 44
Ile Trp Asp Cys Asn Leu Phe Lys Asn Gln Trp Phe Cys Pro Ala Pro
1 5 10 15

<210> 45
<211> 16
<212> PRT
<213> Artificial Sequence

<220>
<223> CEA binding polypeptide

<400> 45
Asp Trp Ile Cys Asn Leu Phe Lys Asn Gln Trp Phe Cys Asp Ile Arg
1 5 10 15

<210> 46
<211> 16
<212> PRT
<213> Artificial Sequence

<220>
<223> CEA binding polypeptide

<400> 46
Asp Trp Met Cys Asn Leu Phe Lys Asn Gln Trp Phe Cys Asp Val Val
1 5 10 15

<210> 47
<211> 16
<212> PRT
<213> Artificial Sequence

<220>
<223> CEA binding polypeptide

<400> 47
Asp Trp Ile Cys Asn Leu Phe Lys Asn Gln Trp Phe Cys Asp Ala Ile
1 5 10 15

<210> 48
<211> 16
<212> PRT
<213> Artificial Sequence

<220>
<223> CEA binding polypeptide

<400> 48
Asp Trp Ile Cys Asn Leu Phe Lys Asn Gln Trp Phe Cys Asp Met Ala
1 5 10 15

<210> 49
<211> 16
<212> PRT
<213> Artificial Sequence

<220>
<223> CEA binding polypeptide

<400> 49
Asp Trp Val Cys Glu Phe Leu Lys Met Gln Trp Ala Cys Asn Val Leu
1 5 10 15

<210> 50
<211> 16
<212> PRT
<213> Artificial Sequence

<220>
<223> CEA binding polypeptide

<400> 50
Asp Trp Val Cys Asn Leu Phe Lys Asn Gln Trp Phe Cys Asn Val Met
1 5 10 15

<210> 51
<211> 16
<212> PRT
<213> Artificial Sequence

<220>
<223> CEA binding polypeptide

<400> 51
Ala Trp Pro Cys Asn Leu Phe Lys Asn Gln Trp Phe Cys Pro Pro Gln
1 5 10 15

<210> 52
<211> 16
<212> PRT
<213> Artificial Sequence

<220>
<223> CEA binding polypeptide

<400> 52
Asp Trp Val Cys Asn Leu Phe Lys Asn Gln Trp Phe Cys Asp Val Leu
1 5 10 15

<210> 53
<211> 16
<212> PRT
<213> Artificial Sequence

<220>
<223> CEA binding polypeptide

<400> 53
Asp Trp Val Cys Asn Leu Phe Lys Asn Gln Trp Phe Cys Asp Lys Trp
1 5 10 15

<210> 54
<211> 16
<212> PRT
<213> Artificial Sequence

<220>
<223> CEA binding polypeptide

<400> 54
Asp Trp Val Cys Glu Trp Leu Lys Met Gln Trp Ala Cys Asn Met Leu
1 5 10 15

<210> 55
<211> 16
<212> PRT
<213> Artificial Sequence

<220>
<223> CEA binding polypeptide

<400> 55
Asp Trp Val Cys Asp Phe Phe Phe Asn Gln Trp Thr Cys Asn Leu Leu
1 5 10 15

<210> 56
<211> 16
<212> PRT
<213> Artificial Sequence

<220>
<223> CEA binding polypeptide

<400> 56
Asp Trp Val Cys Glu Met Phe Lys Ala Gln Trp Phe Cys Asn Ala Leu
1 5 10 15

<210> 57
<211> 16
<212> PRT
<213> Artificial Sequence

<220>
<223> CEA binding polypeptide

<400> 57
Asp Trp Ile Cys Asn Leu Phe Lys Asn Gln Trp Phe Cys Asp Ala Trp
1 5 10 15

<210> 58
<211> 16
<212> PRT
<213> Artificial Sequence

<220>
<223> CEA binding polypeptide

<400> 58
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